

$\Sigma x B$ 

**EC 1.6.99.3 Nadh dehydrogenase.**

3 PDB entries

## Enzymes

**EC 1.-.-.- Oxidoreductases. [3,748 PDB entries]**

**EC 1.6.-.- Acting on Nadh or nadph. [122 PDB entries]**

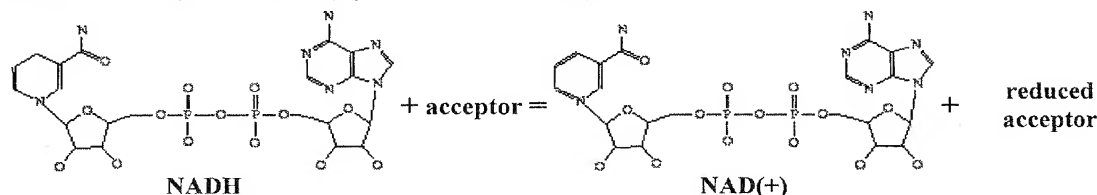
**EC 1.6.99.- With other acceptors. [17 PDB entries]**

**EC 1.6.99.3 Nadh dehydrogenase. [3 PDB entries]**



inox

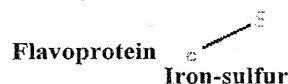
**Reaction:**  $Nadh + acceptor = NAD(+) + reduced\ acceptor.$



Molecule diagrams generated from .mol files obtained from the KEGG ftp site.

**Other name(s):** *Beta-Nadh dehydrogenase dinucleotide. Cytochrome c reductase. Diaphorase. Dihydrocodehydrogenase I dehydrogenase. Dihydronicotinamide adenine dinucleotide dehydrogenase. Diphosphopyrinase. Dpnh diaphorase. Nadh diaphorase. Nadh hydrogenase. Nadh oxidoreductase.*

**Cofactor(s):** *Flavoprotein; Iron-sulfur.*



Molecule diagrams generated from .mol files obtained from the KEGG ftp site.

**Comments:** After preparations have been subjected to certain treatments cytochrome c may act as acceptor. Under normal conditions, two protons are extruded from the cytoplasm or the intramitochondrial or stromal compartment. Present in a mitochondrial complex as Ec 1.6.5.3. Formerly Ec 1.6.2.1.

**Links:** [\[IntEnz\]](#) [\[ExPASy\]](#) [\[KEGG\]](#)

There are 3 PDB entries in enzyme class E.C.1.6.99.3

PDB code	Protein
1nox	<p><u>Nadh oxidase from thermus thermophilus</u></p> <p><b>Source:</b> <i>Thermus thermophilus</i>. Strain: hb8. Atcc: 27634. Expressed in: <i>escherichia coli</i>.</p> <p><b>Chain:</b> A (200 residues)</p> <p><b>Bound ligand:</b> Het Group FMN is 41.00% similar to enzyme reactant NADH</p>
1ozk	<p>Theoretical model for nadh-ubiquinone reductase</p> <p><b>Source:</b> <i>Escherichia coli</i>. Bacteria</p> <p><b>Chain:</b> A (385 residues)</p> <p><b>Bound ligand:</b> Het Group NAD corresponds to enzyme reactant NADH</p>
1s3a	<p>Nmr solution structure of subunit b8 from human nadh- ubiquinone oxidoreductase complex i (ci-b8)</p> <p><b>Source:</b> <i>Homo sapiens</i>. Human. Gene: ndufa2. Expressed in: <i>escherichia coli</i>.</p> <p><b>Chain:</b> A (85 residues)</p>